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OCT 23 2006

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/065,985	12/06/2002	Michael Bowman	124457-1/GE3-0016	4521

7590 09/21/2006
Majid Ali Syed
1105 Stone Creek Dr.
Hummelstown, PA 17036

EXAMINER

JONES, MELVIN

ART UNIT PAPER NUMBER

3744

DATE MAILED: 09/21/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary for Applications Under Accelerated Examination	Application No. 10/065,985	Applicant(s) BOWMAN ET AL.	
	Examiner Melvin Jones	Art Unit 3744	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
 Since this application has been granted special status under the accelerated examination program,
 NO extensions of time under 37 CFR 1.136(a) will be permitted and a SHORTENED STATUTORY PERIOD FOR
 REPLY IS SET TO EXPIRE:

ONE MONTH OR THIRTY (30) DAYS, WHICHEVER IS LONGER,
 FROM THE MAILING DATE OF THIS COMMUNICATION -- if this is a non-final action or a Quayle action.
 (Examiner: For FINAL actions, please use PTOL-326.)

The objective of the accelerated examination program is to complete the examination of an application within twelve months from the filing date of the application. Any reply must be filed electronically via EFS-Web so that the papers will be expeditiously processed and considered. If the reply is not filed electronically via EFS-Web, the final disposition of the application may occur later than twelve months from the filing of the application.

Status

- 1) ☒ Responsive to communication(s) filed on 29 October 2004.
 2) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 3) ☒ Claim(s) 1-86 is/are pending in the application.
 3a) Of the above claim(s) _____ is/are withdrawn from consideration.
 4) ☒ Claim(s) 33-86 is/are allowed.
 5) ☒ Claim(s) 1 and 2 is/are rejected.
 6) ☒ Claim(s) 3-32 is/are objected to.
 7) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 8) ☐ The specification is objected to by the Examiner.
 9) ☒ The drawing(s) filed on 11/17/2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 10) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 11) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) ☐ All b) ☐ Some * c) ☐ None of:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date 92004, 22403, 22403, 102904, 12602.
 4) ☐ Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____
 5) ☐ Notice of Informal Patent Application
 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1 & 2 are rejected under 35 U.S.C. 102(e) as being anticipated by Novotny et al (US Patent No. 6,438,984). Novotny discloses a system for cooling an electronic component and comprising: a blower adapted for use as a turbo-machinery and providing a high flux means of cooling, a system (31) with electronic components attached to a surface (33), an airflow across a heat sink (37), a pump (66) and a compressor (96) with a motor drive/control electronics (see column 8).

Allowable Subject Matter

Allowable Subject Matter

Claims 33-86 are allowed over the prior art of record.

Claims 3-32 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

Applicant's arguments, see amendment, filed 10/29/2004, with respect to claims 1-86 have been fully considered and are persuasive. The restriction of claims 1-86 has been withdrawn.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melvin Jones whose telephone number is (571)272-4810. The examiner can normally be reached on Monday- Wednesday & Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cheryl Tyler can be reached on (571) 272-4834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

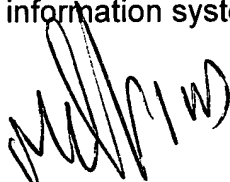
Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic

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Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

A handwritten signature in black ink, appearing to read 'Melvin Jones', is written over the printed name.

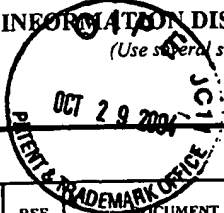
Melvin Jones
Primary Examiner
Art Unit 3744

MELVIN JONES
PRIMARY EXAMINER

INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>				Docket Number (Optional) 124457 (GE3-0016)		Application Number 10/065,985		
				Applicant(s) Niskayuna Mehmet Arik, et al.				
				Filing Date December 6, 2002		Group Art Unit 3743		
U.S. PATENT DOCUMENTS								
*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
mg		6,198,627 B1	03/2001	Rochling, et al.	361	688		
mg		6,587,335 B1	07/2003	Nelson, et al.	361	687		
U.S. PATENT APPLICATION PUBLICATIONS								
*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
mg		2002/0010743 A1	01/2002	Ryan, et al.	709	205		
FOREIGN PATENT DOCUMENTS								
	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO
mg		DE 196 25 606 A1	01/1998	Germany	G06F	1/20		✓
mg		2002-26560	01/2002	Japan	H05K	7/20		✓
OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>								
A copy of the Patent Cooperation Treaty International Search Report dated July 13, 2004.								
<div style="font-size: 2em; font-weight: bold;">RECEIVED</div> <div style="font-size: 1.2em;">SEP 23 2004</div> <div style="font-size: 1.1em;">TECHNOLOGY CENTER R3700</div>								
EXAMINER <i>M. J. M.</i>				DATE CONSIDERED <i>09/17/06</i>				
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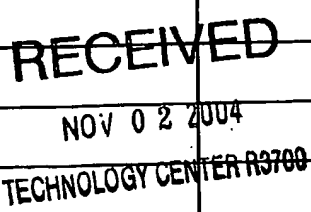
INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>				Docket Number (Optional) 124457-1 (GE3-0016)		Application Number 10/065,985	
				Applicant(s) Micheal Bowman, et al.			
				Filing Date December 06, 2002		Group Art Unit 3744	



U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>MT</i>		6,033,506	03/2000	Klett	156	78	

U.S. PATENT APPLICATION PUBLICATIONS							
*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS								
	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO



OTHER DOCUMENTS			(Including Author, Title, Date, Pertinent Pages, Etc.)
<i>MT</i>		Osgood, Sarah, "Heat Transfer in Carbon Foam". Master's Thesis, Department of Mechanical Engineering, Rensselaer Polytechnic Institute, Troy, NY, November 2001.	

EXAMINER <i>MT</i>	DATE CONSIDERED <i>9/17/04</i>
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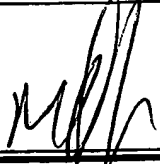
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search string: (6468150 or 6438984 or 6119987 or 6029742 or 5380956).pn.

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Citation No.	Patent Number	Date	Bar Code	Patentee	Class	Subclass
	P01	6468150	2002-10-22		Langdon et al.	454	184
	P02	6438984	2002-08-27		Novotny et al.	62	259.2
	P03	6119987	2000-09-19		Kiknadze et al.	244	204
	P04	6029742	2000-02-29		Burward-Hoy	165	80.4
	P05	5380956	1995-01-10		Loo et al.	174	252

Signature

Examiner Name	Date
	9/17/04

Notice of References Cited	Application/Control No. 10/065,985	Applicant(s)/Patent Under Reexamination BOWMAN ET AL.	
	Examiner Melvin Jones	Art Unit 3744	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-5,380,956	01-1995	Loo et al.	174/252
*	B	US-6,161,768	12-2000	Gordon et al.	237/12.1
	C	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
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NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
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	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
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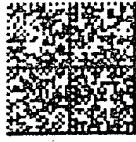
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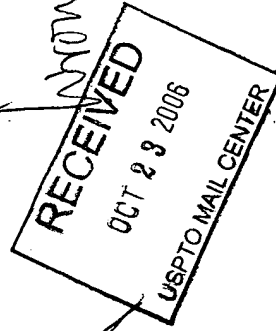
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